



# County of Orange



# GENERAL PLAN

March 2011

# **County of Orange**

## **General Plan**

OC Public Works  
Jess A. Carbajal, Director

Board of Supervisors Resolution 11-044  
March 22, 2011

## **CHRONOLOGY OF GENERAL PLAN AMENDMENTS SINCE JANUARY 2000**

<b><u>Amendment No.</u></b>	<b><u>Adoption Date</u></b>	<b><u>Resolution No.</u></b>	<b><u>Description</u></b>
GPA 2000-1	February 15, 2000	00-59	General Plan Modernization
HEA 2001-1	May 8, 2001	01-129	Housing Element Update
HEA 2001-2	December 4, 2001	01-413	State Certification of the Housing Element
N 03-01	July 1, 2003	03-235	Measure W and Aviation Easements
TGPA 04-01	April 20, 2004	04-106	Technical General Plan Amendment
TGPA 05-01	September 13, 2005	05-222	Technical General Plan Amendment
TGPA 06-01	June 20, 2006	06-113	Housing Element -- Technical General Plan Amendment
HEA 2008-01	December 9, 2008	08-154	Housing Element Update
S 2009-01	March 15, 2011	11-037	Incorporation of Hazard Mitigation Plan into Safety Element
H 2011-01	March 22, 2011	11-044	Housing Element Update

# TABLE OF CONTENTS

---

<b>I.</b>	<b>INTRODUCTION .....</b>	<b>I-1</b>
PURPOSE OF THE GENERAL PLAN .....	I-1	
FORMAT OF THE GENERAL PLAN .....	I-2	
HISTORY OF THE GENERAL PLAN .....	I-3	
<b>II.</b>	<b>BACKGROUND FOR PLANNING .....</b>	<b>II-1</b>
DEMOGRAPHICS .....	II-4	
PLANNING ASSUMPTIONS .....	II-10	
<b>III.</b>	<b>LAND USE ELEMENT .....</b>	<b>III-1</b>
OVERVIEW.....	III-1	
PURPOSE .....	III-2	
RELATIONSHIP TO OTHER ELEMENTS .....	III-2	
PLANNING CONSTRAINTS & DEFICIENCIES .....	III-2	
LAND USE CATEGORIES .....	III-8	
BUILDING INTENSITY/POPULATION DENSITY STANDARDS .....	III-21	
OBJECTIVES AND POLICIES .....	III-30	
IMPLEMENTATION PROGRAMS .....	III-37	
<u>MAPS &amp; FIGURES</u>		
Map III-1	Land Use Designations .....	III-11
Map III-2	Spheres of Influence .....	III-13
Figure III-1a	Flood Hazards .....	III-5
Figure III-1b	Fire Hazard Severity Zones .....	III-6
Figure III-1c	Seismic Hazards .....	III-7
Figure III-2	Floor Area Ratio .....	III-29
<b>IV.</b>	<b>TRANSPORTATION ELEMENT .....</b>	<b>IV-1</b>
COMPONENT ONE: <i>CIRCULATION PLAN</i> .....	IV-2	
GOALS, OBJECTIVES & POLICIES .....	IV-13	
IMPLEMENTATION PROGRAMS .....	IV-19	
COMPONENT TWO: <i>BIKEWAYS PLAN</i> .....	IV-25	
GOALS, OBJECTIVES & POLICIES .....	IV-31	
IMPLEMENTATION PROGRAMS .....	IV-34	
COMPONENT THREE: <i>SCENIC HIGHWAYS PLAN</i> .....	IV-34	
GOALS, OBJECTIVES & POLICIES .....	IV-38	
IMPLEMENTATION PROGRAMS .....	IV-41	
<u>FIGURES</u>		
Figure IV-1	Circulation Plan .....	IV-5
Figure IV-2	Principal .....	IV-9
Figure IV-3	Major .....	IV-9

# TABLE OF CONTENTS

---

Figure IV-4	Primary .....	IV-11
Figure IV-5	Secondary .....	IV-11
Figure IV-6	Commuter .....	IV-12
Figure IV-7	Bikeway Plan .....	IV-27
Figure IV-8	Two-Way Bike Path .....	IV-30
Figure IV-9	Bike Lane Parking Prohibited .....	IV-30
Figure IV-10	Bike Lane Parking Permitted .....	IV-30
Figure IV-11	Scenic Highways Plan .....	IV-35
Figure IV-12	Roadside Rest .....	IV-37
Figure IV-13	Vista Point .....	IV-37
Figure IV-14	Viewscape Half-Section .....	IV-39
Figure IV-15	Landscape Half-Section .....	IV-39

<b>V. PUBLIC SERVICES &amp; FACILITIES ELEMENT .....</b>	<b>V-1</b>
GENERAL PUBLIC SERVICES & FACILITIES GOALS, OBJECTIVES & POLICIES.....	V-9
GENERAL PUBLIC SERVICES & FACILITES IMPLEMENTATION PROGRAMS .....	V-11
<b>FLOOD CONTROL SYSTEM .....</b>	<b>V-18</b>
GOALS, OBJECTIVES & POLICIES .....	V-22
IMPLEMENTATION PROGRAMS .....	V-23
<b>WASTE MANAGEMENT SYSTEM .....</b>	<b>V-25</b>
GOALS, OBJECTIVES & POLICIES .....	V-31
IMPLEMENTATION PROGRAMS .....	V-32
<b>WATER SYSTEM .....</b>	<b>V-34</b>
GOALS, OBJECTIVES & POLICIES .....	V-42
IMPLEMENTATION PROGRAMS .....	V-44
<b>WASTEWATER SYSTEM .....</b>	<b>V-46</b>
GOALS, OBJECTIVES & POLICIES .....	V-51
IMPLEMENTATION PROGRAMS .....	V-51
<b>TRANSPORTATION SYSTEM .....</b>	<b>V-53</b>
GOALS, OBJECTIVES & POLICIES .....	V-64
IMPLEMENTATION PROGRAMS .....	V-66
<b>COMMUNITY FACILITIES:</b>	
<b>ORANGE COUNTY FIRE AUTHORITY .....</b>	<b>V-70</b>
GOALS, OBJECTIVES & POLICIES .....	V-74
IMPLEMENTATION PROGRAMS .....	V-75
<b>ORANGE COUNTY PUBLIC LIBRARY .....</b>	<b>V-78</b>
GOALS, OBJECTIVES & POLICIES .....	V-81
IMPLEMENTATION PROGRAMS .....	V-82
<b>ORANGE COUNTY SHERIFF-CORONER .....</b>	<b>V-83</b>
GOALS, OBJECTIVES & POLICIES .....	V-85
IMPLEMENTATION PROGRAMS .....	V-86
<b>LOCAL SPECIAL SERVICES DISTRICT .....</b>	<b>V-87</b>
GOALS, OBJECTIVES & POLICIES .....	V-89
IMPLEMENTATION PROGRAMS .....	V-90
<b>SCHOOLS .....</b>	<b>V-91</b>
GOALS, OBJECTIVES & POLICIES .....	V-102
IMPLEMENTATION PROGRAMS .....	V-102
<b>CHILD CARE .....</b>	<b>V-103</b>
GOALS, OBJECTIVES & POLICIES .....	V-104
IMPLEMENTATION PROGRAMS .....	V-105

## TABLE OF CONTENTS

---

### FIGURES

Figure V-1	Santa Ana River Mainstem .....	V-20
Figure V-2	County Operated Solid Waste Facilities .....	V-28
Figure V-3	California Water System Facilities .....	V-38
Figure V-4	Orange County Groundwater Facilities .....	V-41
Figure V-5	Orange County School Districts .....	V-94

## **VI. RESOURCES ELEMENT .....**

**VI-1**

<b>NATURAL RESOURCES COMPONENT .....</b>		<b>VI-6</b>
GOALS, OBJECTIVES & POLICIES .....	VI-30	
IMPLEMENTATION PROGRAMS .....	VI-31	
<b>ENERGY REOURCES COMPONENT .....</b>	<b>VI-34</b>	
GOALS, OBJECTIVES & POLICIES .....	VI-43	
IMPLEMENTATION PROGRAMS .....	VI-45	
<b>WATER RESOURCES COMPONENT .....</b>	<b>VI-47</b>	
GOALS, OBJECTIVES & POLICIES .....	VI-57	
IMPLEMENTATION PROGRAMS .....	VI-58	
<b>AIR RESOURCES COMPONENT .....</b>	<b>VI-61</b>	
GOALS, OBJECTIVES & POLICIES .....	VI-78	
IMPLEMENTATION PROGRAMS .....	VI-79	
<b>OPEN SPACE COMPONENT .....</b>	<b>VI-85</b>	
GOALS, OBJECTIVES & POLICIES .....	VI-102	
IMPLEMENTATION PROGRAMS .....	VI-104	
<b>CULTURAL-HISTORIC RESOURCES COMPONENT .....</b>	<b>VI-110</b>	
GOALS, OBJECTIVES, & POLICIES .....	VI-119	
IMPLEMENTATION PROGRAMS .....	VI-122	

### CHARTS & FIGURES

Figure VI-1	Prime Farmland in Orange County .....	VI-10
Figure VI-2	Orange County Agricultural Preserve .....	VI-11
Figure VI-3	Orange County Mineral Resources .....	VI-13
Figure VI-4	Wildlife Habitat Areas .....	VI-18
Figure VI-5	Open Space/Conservation Program Map .....	VI-20
Figure VI-6	Orange County Energy Resources .....	VI-36
Figure VI-7	Orange County Water Resources .....	VI-49
Figure VI-8	Orange County Groundwater Basin .....	VI-51
Chart VI-2	Groundwater Basin and Operational History in Orange County .....	VI-54
Figure VI-9	Paleontology .....	VI-113
Figure VI-10	Pre-historic Archaeology .....	VI-114
Figure VI-11	Orange County Historical Areas .....	VI-115

## **VII. RECREATION ELEMENT .....**

**VII-1**

<b>LOCAL PARKS COMPONENT .....</b>		<b>VII-6</b>
GOALS, OBJECTIVES & POLICIES .....	VII-12	
IMPLEMENTATION PROGRAMS .....	VII-15	
<b>REGIONAL RIDING AND HIKING TRAILS COMPONENT .....</b>	<b>VII-19</b>	
GOALS, OBJECTIVES & POLICIES .....	VII-22	
IMPLEMENTATION PROGRAMS .....	VII-30	

# TABLE OF CONTENTS

---

<b>REGIONAL RECREATION FACILITIES COMPONENT .....</b>	VII-34
GOALS OBJECTIVES & POLICIES .....	VII-44
IMPLEMENTATION PROGRAMS .....	VII-53
 <u>FIGURES</u>	
Figure VII-1     Master Plan of Riding and Hiking Trails .....	VII-59
Figure VII-2     Master Plan of Regional Recreational Facilities .....	VII-61
 <b>VIII. NOISE ELEMENT .....</b>	<b>VIII-1</b>
THE EXISTING NOISE ENVIRONMENT.....	VIII-9
OBJECTIVES AND POLICIES .....	VIII-22
 <u>FIGURES</u>	
Figure VIII-1     Examples of Outdoor Community Noise Equivalent Levels .....	VIII-7
Figure VIII-2     Generalized Noise Equivalent Level Contours .....	VIII-12
Figure VIII-3     Effect of Speed on CNELs .....	VIII-13
Figure VIII-4     Typical Noise Mitigation Measures .....	VIII-14
Figure VIII-5     Generalized CNELs (Arterials for Year 2000) .....	VIII-16
Figure VIII-6     Generalized CNELs (Railroads for Year 2000) .....	VIII-17
 <b>IX. SAFETY ELEMENT .....</b>	<b>IX-1</b>
GENERAL SAFETY ELEMENT IMPLEMENTATION PROGRAMS .....	IX-7
<b>PUBLIC SAFETY COMPONENT .....</b>	IX-9
GENERAL GOALS AND OBJECTIVES: <i>PUBLIC SAFETY COMPONENT</i> .....	IX-9
<b>CRIME .....</b>	IX-10
GOALS, OBJECTIVES & POLICIES .....	IX-12
IMPLEMENTATION PROGRAMS .....	IX-13
<b>FIRE .....</b>	IX-15
GOALS, OBJECTIVES & POLICIES .....	IX-22
IMPLEMENTATION PROGRAMS .....	IX-23
<b>HAZARDOUS MATERIALS .....</b>	IX-25
GOALS, OBJECTIVES & POLICIES .....	IX-42
IMPLEMENTATION PROGRAMS .....	IX-44
<b>AIRCRAFT ENVIRONMENT .....</b>	IX-50
GOALS, OBJECTIVES & POLICIES .....	IX-56
IMPLEMENTATION PROGRAMS .....	IX-57
<b>NATURAL HAZARDS COMPONENT .....</b>	IX-59
GENERAL GOALS & OBJECTIVES: <i>NATURAL HAZARDS COMPONENT</i> .....	IX-59
<b>FLOOD HAZARDS .....</b>	IX-59
GOALS, OBJECTIVES & POLICIES .....	IX-74
IMPLEMENTATION PROGRAMS .....	IX-75
<b>SEISMIC AND GEOLOGIC HAZARDS .....</b>	IX-77
GOALS, OBJECTIVES & POLICIES .....	IX-94
IMPLEMENTATION PROGRAMS .....	IX-95
 <u>MAPS &amp; FIGURES</u>	
Figure IX-1     Fire Hazard Severity Zones .....	IX-17

## TABLE OF CONTENTS

---

Figure IX-2	Hazardous Waste Facilities .....	IX-31
Figure IX-3	Regional Class 1 Disposal Sites .....	IX-33
Figure IX-4	EPZ & PEZ .....	IX-41
Figure IX-5	Air Traffic Control Areas .....	IX-53
Figure IX-6	Santa Ana River Overflow Areas .....	IX-63
Figure IX-7	Santiago Creek Overflow Areas .....	IX-64
Figure IX-8	Major Orange County Water Courses .....	IX-67
Figure IX-9	Prado Dam & Santiago Reservoir Inundation Areas .....	IX-68
Figure IX-10	Santa Ana River Mainstem .....	IX-70
Figure IX-11	Fault Map .....	IX-79
Figure IX-12	7.5 Newport-Inglewood Fault .....	IX-83
Figure IX-13	8.3 San Andreas Fault .....	IX-84

<b>X.</b>	<b><i>HOUSING ELEMENT.....</i></b>	<b><i>X-1</i></b>
-----------	------------------------------------	-------------------

*UNDER SEPARATE COVER*

<b>XI.</b>	<b><i>GROWTH MANAGEMENT ELEMENT.....</i></b>	<b><i>XI-1</i></b>
------------	--	--------------------

GOALS, OBJECTIVES & POLICIES .....	XI-8
IMPLEMENTATION PROGRAMS .....	XI-11